

**ABSTRACT OF THE INVENTION****NON-OLIGOMERIZING TANDEM FLUORESCENT PROTEINS**

Non-oligomerizing fluorescent proteins, which are formed by operatively linking two or more monomers of a fluorescent protein, or which are derived from a fluorescent protein having at least one mutation that reduces or eliminates the ability of the fluorescent protein to oligomerize, are provided. The non-oligomerizing fluorescent proteins can be derived from a naturally occurring green fluorescent protein, a red fluorescent protein, or other fluorescent protein, or a fluorescent protein related thereto. Also provided is a fusion protein, which includes a non-oligomerizing fluorescent protein linked to at least one polypeptide of interest. In addition, a polynucleotide encoding a non-oligomerizing fluorescent protein is provided, as is a recombinant nucleic acid molecule, which includes polynucleotide encoding a non-oligomerizing fluorescent protein operatively linked to at least a second polynucleotide. Vectors and host cells containing such polynucleotides also are provided, as are kits containing one or more non-oligomerizing fluorescent proteins or encoding polynucleotides or constructs derived therefrom. Further provided are methods of making and using the proteins and polynucleotides.